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JP9217232 A
BIODEGRADABLE CONJUGATE
SPLITTABLE FIBER AND FIBROUS
SHEET USING THE SAME
DAINIPPON INK & CHEMICALS;
JAPAN VILENE CO LTD

Abstract:

PROBLEM TO BE SOLVED: To obtain the subject conjugate splittable fiber low in calorific value when combusted, good in biodegradability and storage stability, low in offensive odor, composed of a lactic acid-based copolyester and a crystalline biodegradable polymer, and to obtain a dense and uniform biodegradable fibrous sheet made of the above fiber.

SOLUTION: This conjugate splittable fiber is composed of a lactic acid-based copolyester 110-190°C in melting point composed of three kinds of structural unit, namely, (A) lactic acid component, (B) dicarboxylic acid component and (C) diol component, and a crystalline biodegradable polymer. The other objective fibrous sheet contains the above conjugate splittable fibers; one version of the fibrous sheet is a blend of the above biodegradable conjugate splittable fibers and biodegradable thermofusible fibers containing a low-melting lactic acid-based copolyester 20-70°C lower in melting point than the lactic acid-based copolyester contained in the above biodegradable conjugate splittable fiber.

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